

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A strain sensor comprising:

a substrate ~~[[on]]~~in which a first hole passing through~~[[though]]~~ from a first face to a second face is provided, the first face and second face opposing each other;

a strain-detecting element provided on at least one of the first face and the second face; ~~[[and]]~~

a first fixing member including a first washer and a second washer, ~~[[the first fixing member being fixed onto the substrate by inserting]]~~ at least one of the first washer and the second washer comprising a first insertion part; and

wherein said first insertion part extends into the first hole to attach the first fixing member to the substrate so that the substrate is sandwiched and held ~~[[with]]~~between the first washer and the second washer.

2. (Currently Amended) The ~~first~~ strain sensor as defined in Claim 1, wherein ~~[[the first washer has a first insertion part and]]~~the first washer comprises the first insertion part, wherein the second washer has a second insertion part, and the first insertion part is inserted into the first hole ~~with clearance to the first hole~~ and the second insertion part is press-fitted to an internal periphery of the first insertion part.

3. (Original) The strain sensor as defined in Claim 1, wherein the first washer has a round first contact head attached to the first face of the substrate, and the second washer has a round second contact head attached to the second face of the substrate.

4. (Currently Amended) The strain sensor as defined in Claim 1, wherein the first washer comprises the first insertion part~~[[has a third insertion part]]~~, the second washer is provided with a ~~second~~washer hole, and the ~~third~~first insertion part is press-fitted in the ~~second~~washer hole.

5. (Currently Amended) A strain sensor comprising:

a substrate in which a first hole passing through from a first face to a second face is provided, the first face and second face opposing each other;

a strain-detecting element provided on at least one of the first face and the second face;

a first fixing member including a first washer and a second washer, at least one of the first washer and the second washer being provided in the first hole such that the substrate is sandwiched and held between the first washer and the second washer and such that the first fixing member is attached to the substrate;

[[The strain sensor as defined in Claim 1,]]

wherein the substrate is provided with a [[third]]second hole, and the strain sensor further has a detection member for receiving a strain force of a measurement target, the detection member comprising a third washer and a fourth washer, at least one of the third washer and the fourth washer being inserted into the [[third]]second hole[[, and]] such that the detection member [[being]]is fixed onto the substrate [[by sandwiching and holding the substrate with]]and the substrate is sandwiched and held by the third washer and the fourth washer.

6. (Currently Amended) The strain sensor as defined in Claim 5, wherein the third washer has a [[fourth]]first insertion part, the fourth washer has a [[fifth]]second insertion part, the [[fourth]]first insertion part is inserted into the [[third]]second hole ~~with clearance to the third hole~~, and the [[fourth]]first insertion part is press-fitted to an internal periphery of the [[fifth]]second insertion part.

7. (Currently Amended) The strain sensor as defined in Claim 14[[5]], wherein the third washer has a round [[third]]first contact head touching the first face of the substrate, and the fourth washer has a round [[fourth]]second contact head touching the second face of the substrate.

8. (Currently Amended) The strain sensor as defined in Claim 5, wherein the third washer has a ~~[[sixth]]~~first insertion part, and a ~~[[fourth]]~~washer hole is provided on the second washer, and the ~~[[sixth]]~~first insertion part is press-fitted into the ~~[[fourth]]~~washer hole.

9. (Currently Amended) A strain sensor comprising:
a substrate in which a first hole passing through from a first face to a second face is provided, the first face and second face opposing each other;
a strain-detecting element provided on at least one of the first face and the second face;
a first fixing member including a first washer and a second washer, at least one of the first washer and the second washer being provided in the first hole such that the substrate is sandwiched and held between the first washer and the second washer and such that the first fixing member is attached to the substrate;

~~The strain sensor as defined in Claim 1,~~
wherein the substrate is provided with a ~~first~~second hole ~~[[equivalent to the first hole]],~~ and the strain sensor further has a second fixing member including a ~~first~~third washer and a ~~sixth~~fourth washer; ~~and by inserting~~

wherein at least one of the ~~first~~third washer and the ~~sixth~~fourth washer is inserted into the ~~first~~second hole~~[[, and]]~~ such that the second fixing member is fixed onto the substrate ~~[[by sandwiching and holding the substrate with]]~~and the substrate is sandwiched and held by the ~~first~~third washer and ~~sixth~~fourth washer.

10. (Currently Amended) The strain sensor as defined in Claim 9, wherein the substrate is provided with a third hole, the strain sensor further has a detection member for receiving a strain force of a detection target, the detection member being provided between the first fixing member and the second fixing member and having a ~~[[third]]~~fifth washer and a ~~[[fourth]]~~sixth washer, wherein at least one of the ~~[[third]]~~fifth washer and the ~~[[fourth]]~~sixth washer is inserted into the third hole~~[[, and]]~~ such that the detection member is fixed onto the substrate ~~[[by sandwiching and holding the substrate with]]~~and the substrate is sandwiched and held by the ~~[[third]]~~fifth washer and the ~~[[fourth]]~~sixth washer.

11. (New) The strain sensor as defined in Claim 2, wherein a clearance is provided between an inner periphery of the first hole and an outer periphery of the first insertion part.

12. (New) The strain sensor as defined in Claim 6, wherein a clearance is provided between an inner periphery of the second hole and an outer periphery of the second insertion part.

13. (New) The strain sensor as defined in Claim 1, wherein the first insertion part is cylindrical.

14. (New) The strain sensor as defined in Claim 5, wherein at least one of the first washer and the second washer has a cylindrical first insertion part provided in the first hole, and wherein at least one of the third washer and the fourth washer has a cylindrical second insertion part provided in the second hole.

15. (New) The strain sensor as defined in Claim 9, wherein at least one of the first washer and the second washer has a cylindrical first insertion part provided in the first hole, and wherein at least one of the third washer and the fourth washer has a cylindrical second insertion part provided in the second hole.

16. (New) The strain sensor of Claim 10, wherein at least one of the first washer and the second washer has a cylindrical first insertion part provided in the first hole, and wherein at least one of the third washer and fourth washer has a cylindrical second insertion part provided in the second hole, and wherein at least one of the fifth washer and the sixth washer has a cylindrical third insertion part provided in the third hole.

17. (New) The strain sensor as defined in Claim 2, wherein the second insertion part directly contacts an inner periphery of the first insertion part and is frictionally retained within the first insertion part.

18. (New) The strain sensor as defined in Claim 6, wherein the first insertion part directly contacts an inner periphery of the second insertion part and is frictionally retained within the first insertion part.

19. (New) The strain sensor as defined in Claim 1, wherein the first washer has a first contact head, the first washer has a first insertion part, the first insertion part is provided in the first hole, and the first contact head extends beyond the first insertion part in a width direction forming a lip that contacts the first face of the substrate.

20. (New) The strain sensor as defined in Claim 19, wherein the second washer has a second contact head, the second washer has a second insertion part, the second insertion part is provided in the first hole, and the second contact head extends beyond the second insertion part in a width direction forming a lip that contacts the second face of the substrate.